

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. - 52. (Canceled)

53. (New) A gas diffusion electrode comprising:

- (i) an electrically conducting porous structure;
- (ii) a first catalytic component, said first catalytic component being embedded with the porous structure and being a gas-phase catalyst designed to remove contaminant gases, wherein said first catalytic component comprises a first catalyst which is one or more noble metals or non-noble metals of a combination thereof, and wherein said first catalyst is directly supported on an electrically non-conducting support; and
- (iii) a second catalytic component, said second catalytic component being applied to the porous structure as a surface layer and being an electrocatalyst adapted to facilitate an electrochemical reaction, wherein said second catalytic component comprises a second catalyst which is a precious metal or a transition metal as the metal or metal oxide, either unsupported or supported in a dispersed form on a carbon support; a carbon or an organic complex, in the form of a high surface area finely divided powder or fibre, or a combination thereof.

54. (New) A gas diffusion electrode according to claim 53, wherein the first catalyst is selected from the group consisting of platinum, palladium, ruthenium, rhodium, gold, chromium, molybdenum, nickel and manganese or a combination thereof.

55. (New) A gas diffusion electrode according to claim 53, wherein the electrically non-conducting support is an oxidic support.

56. (New) A gas diffusion electrode according to claim 53, wherein the electrically non-conducting support is selected from the group consisting of alumina, silica, ceria, zirconia, an oxide of iron, a manganese oxide and titania.

57. (New) A gas diffusion electrode according to claim 53, wherein the second catalytic component is a platinum/ruthenium alloy supported on carbon black or platinum supported on carbon black.
58. (New) A gas diffusion electrode according to claim 53, wherein the porous structure is a woven or non-woven fibrous material.
59. (New) A gas diffusion electrode according to claim 53, wherein the porous structure is a woven or non-woven fibrous material and further comprises a filler material.
60. (New) A gas diffusion electrode according to claim 53, wherein the porous structure is formed from a polymer.
61. (New) A gas diffusion electrode according to claim 53, wherein the porous structure is a metal mesh.
62. (New) A membrane electrode assembly comprising a gas diffusion electrode as claimed in claim 53, a second gas diffusion electrode, and a solid polymer membrane.
63. (New) A membrane electrode assembly comprising a gas diffusion electrode as claimed in claim 53, a gas diffusion substrate and a solid polymer membrane, wherein an electrocatalyst layer is applied to the side of the membrane facing the gas diffusion substrate.
64. (New) A fuel cell comprising a gas diffusion electrode as claimed in claim 1.
65. (New) A fuel cell comprising a membrane electrode assembly as claimed in claim 62.
66. (New) A fuel cell comprising a membrane electrode assembly as claimed in claim 63.
67. (New) A gas diffusion electrode comprising:
 - (i) an electrically conducting porous structure;
 - (ii) first catalytic component, said first catalytic component being applied to the porous structure as a surface layer and being a gas-phase catalyst designed to remove contaminant gases, wherein said first catalytic component comprises a first catalyst

which is one or more noble metals or non-noble metals of a combination thereof, and wherein said first catalyst is directly supported on an electrically non-conducting support; and

- (iii) a second catalytic component, said second catalytic component being applied as a separate surface layer or as a surface layer mixed with the first catalytic component and being an electrocatalyst adapted to facilitate an electrochemical reaction, wherein said second catalytic component is a precious metal or a transition metal as the metal or metal oxide, either unsupported or supported in a dispersed form on a carbon support; a carbon or an organic complex, in the form of a high surface area finely divided powder or fibre, or a combination thereof.
- 68. (New) A gas diffusion electrode according to claim 67, wherein the first catalyst is selected from the group consisting of platinum, palladium, ruthenium, rhodium, gold, chromium, molybdenum, nickel and manganese or a combination thereof.
 - 69. (New) A gas diffusion electrode according to claim 67, wherein the electrically non-conducting support is an oxidic support.
 - 70. (New) A gas diffusion electrode according to claim 67, wherein the electrically non-conducting support is selected from the group consisting of alumina, silica, ceria, zirconia, an oxide of iron, a manganese oxide and titania.
 - 71. (New) A gas diffusion electrode according to claim 67, wherein the second catalytic component is a platinum/ruthenium alloy supported on carbon black or platinum supported on carbon black.
 - 72. (New) A gas diffusion electrode according to claim 67, wherein the porous structure is a woven or non-woven fibrous material.
 - 73. (New) A gas diffusion electrode according to claim 67, wherein the porous structure is a woven or non-woven fibrous material and further comprises a filler material.
 - 74. (New) A gas diffusion electrode according to claim 67, wherein the porous structure is formed from a polymer.

75. (New) A gas diffusion electrode according to claim 67, wherein the porous structure is a metal mesh.
76. (New) A membrane electrode assembly comprising a gas diffusion electrode as claimed in claim 67, a second gas diffusion electrode, and a solid polymer membrane.
77. (New) A membrane electrode assembly comprising a gas diffusion electrode as claimed in claim 67, a gas diffusion substrate and a solid polymer membrane, wherein an electrocatalyst layer is applied to the side of the membrane facing the gas diffusion substrate.
78. (New) A fuel cell comprising a gas diffusion electrode as claimed in claim 67.
79. (New) A fuel cell comprising a membrane electrode assembly as claimed in claim 76.
80. (New) A fuel cell comprising a membrane electrode assembly as claimed in claim 77.